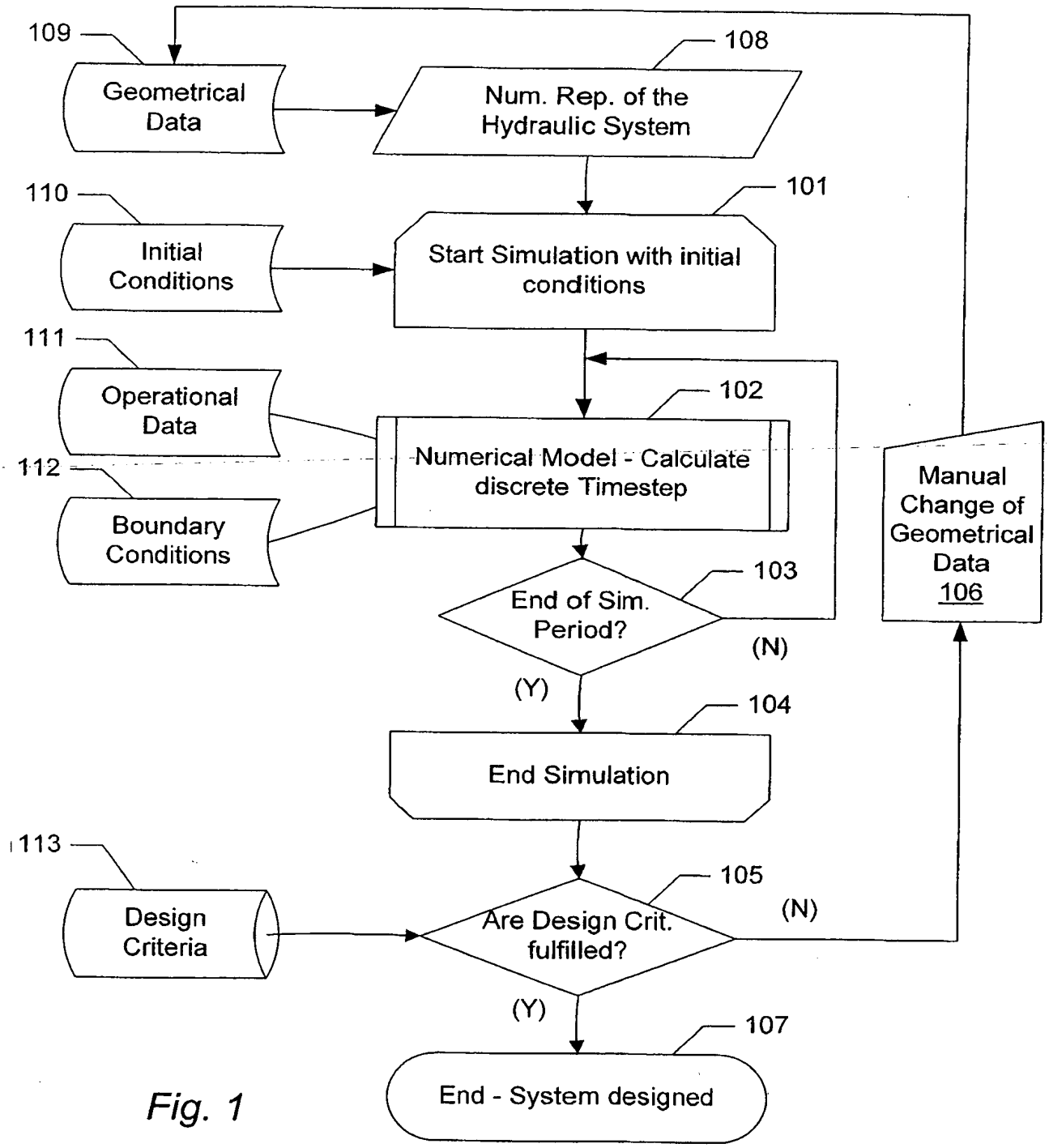
109
Geometrical Data
108
Num. Rep. of the Hydraulic System
110
Initial Conditions
101
Start Simulation with initial conditions
111
Operational Data
102
Numerical Model - Calculate discrete Timestep
112
Boundary Conditions
103
End of Sim. Period?
(N)
(Y)
104
End Simulation
113
Design Criteria
105
Are Design Crit. fulfilled?
(N)
(Y)
107
End - System designed
Manual Change of Geometrical Data 106

Fig. 1

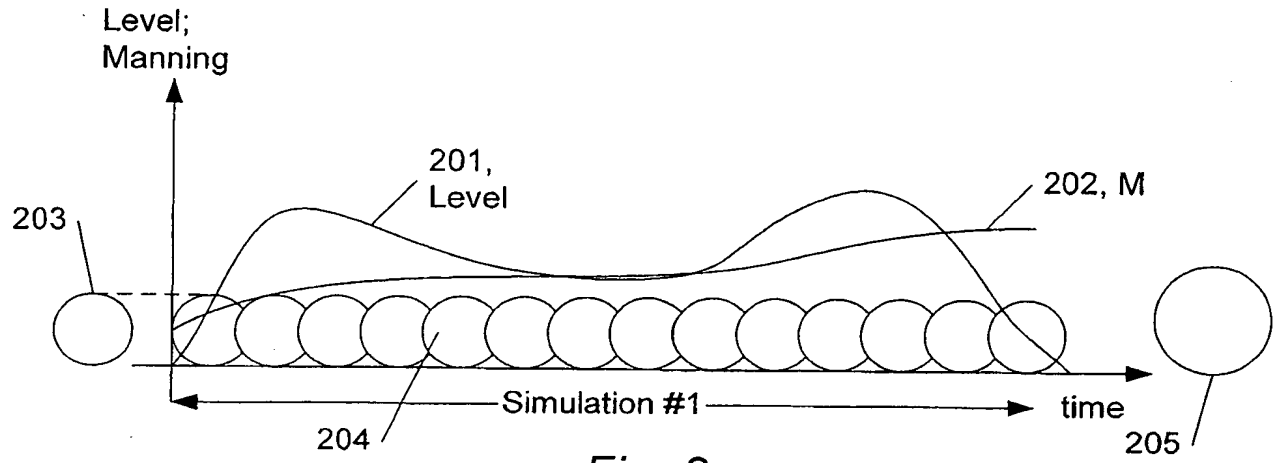

Fig. 2a

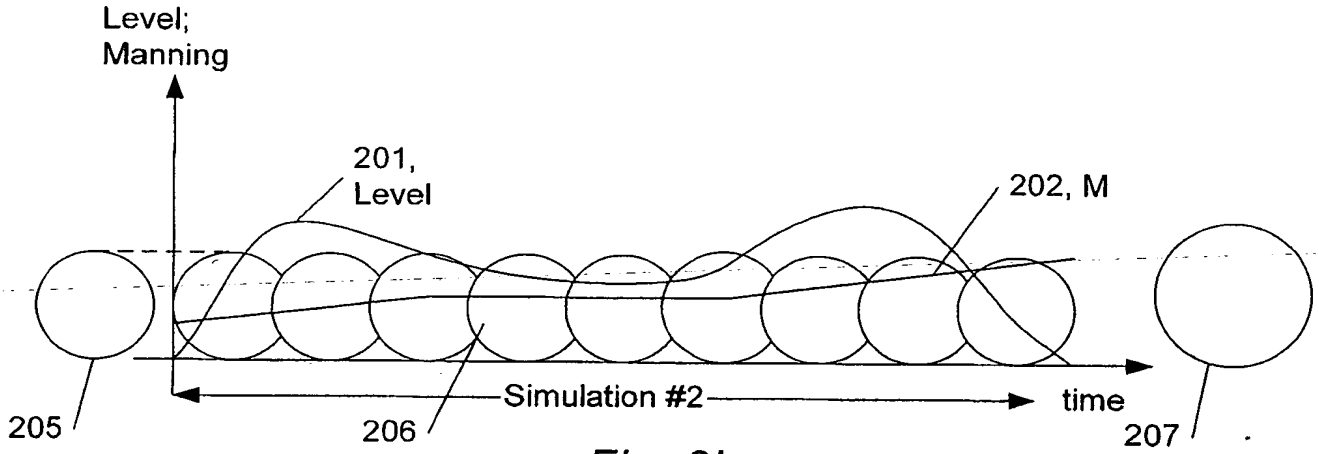

Fig. 2b

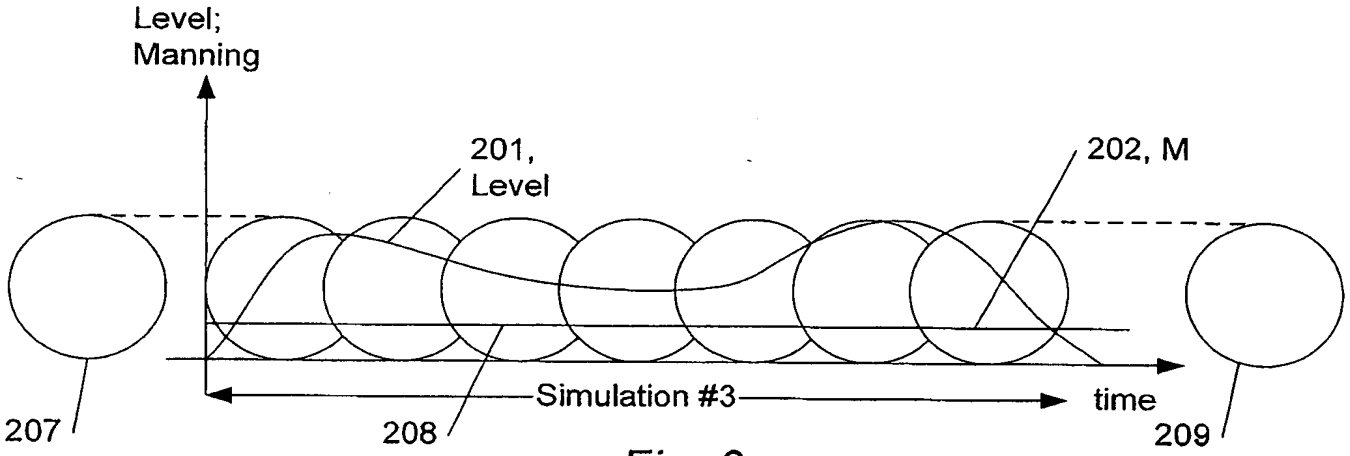

Fig. 2c

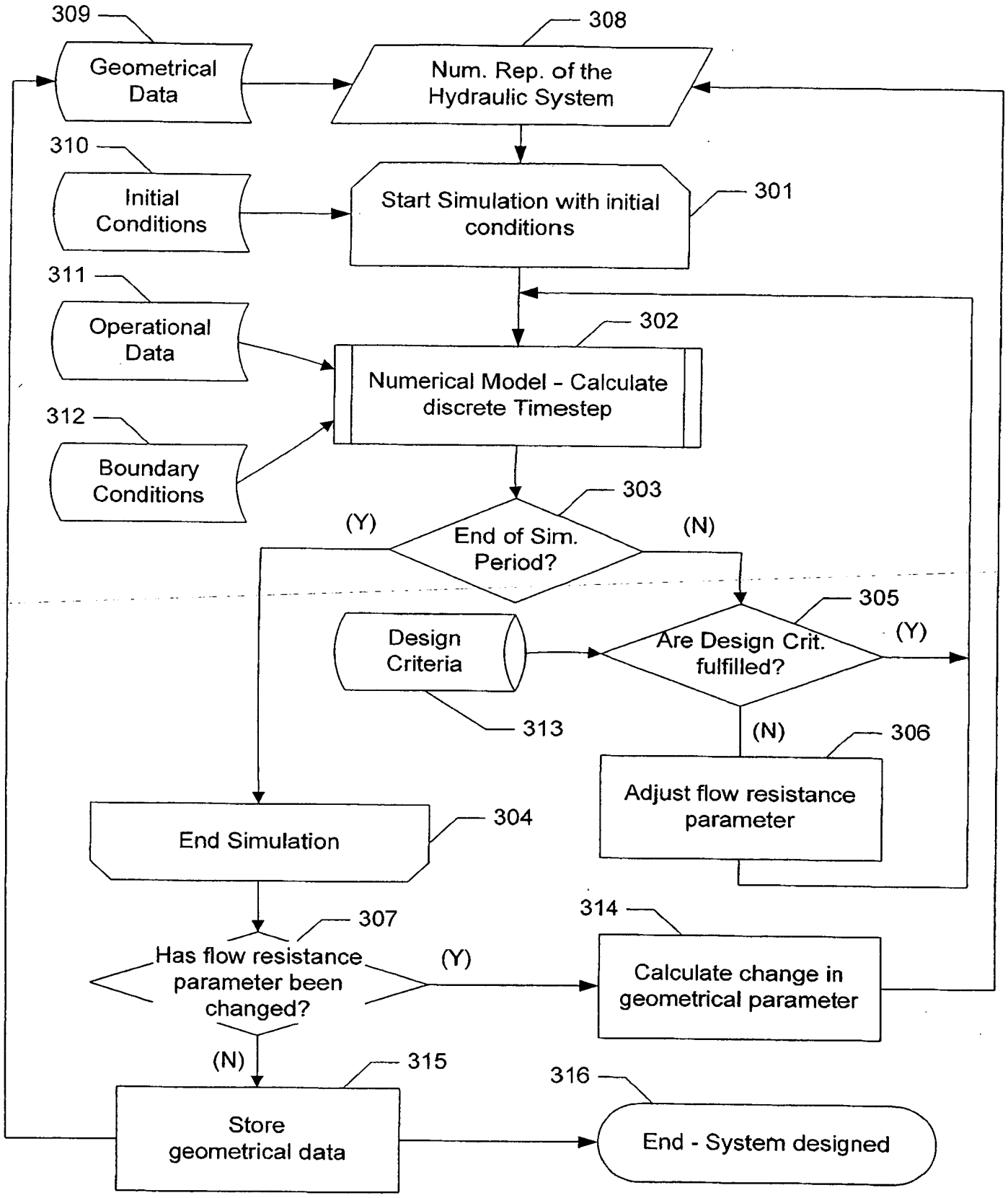
309
Geometrical Data
308
Num. Rep. of the Hydraulic System
310
Initial Conditions
Start Simulation with initial conditions
301
311
Operational Data
302
Numerical Model - Calculate discrete Timestep
312
Boundary Conditions
303
(Y)
End of Sim. Period?
(N)
305
Design Criteria
Are Design Crit. fulfilled?
(Y)
313
(N)
306
Adjust flow resistance parameter
End Simulation
304
307
314
Has flow resistance parameter been changed?
(Y)
Calculate change in geometrical parameter
(N)
315
316
Store geometrical data
End - System designed

Fig. 3

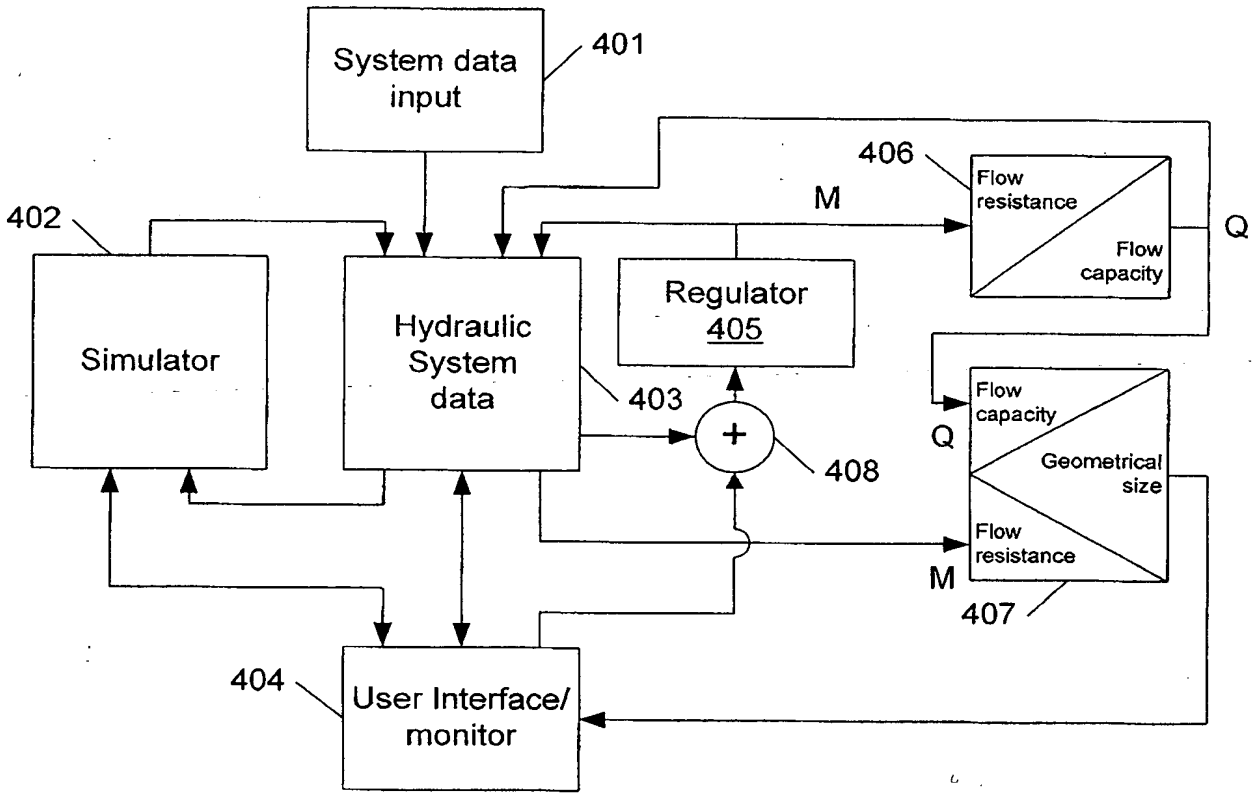
System data input
401
406
Flow resistance
Flow capacity
M
Q
402
Simulator
Hydraulic System data
403
Regulator 405
+
408
Flow capacity
Geometrical size
Flow resistance
Q
M
407
404
User Interface/ monitor

Fig. 4